Index of Claims

| Applica | tion/Co | ntrol | No. |
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10/784,578

Examiner

Mark J. Beauchaine

Applicant(s)/Patent under Reexamination

ABE, HIROSHI

Art Unit

3653

| <b>√</b> | Rejected |
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| =        | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| Ν | Non-Elected  |
|---|--------------|
| _ | Interference |

| A | Appeal   |
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| 0 | Objected |

| Cla      | aim      | Date            |          |          |          |              | Date Claim Date                                  |          |          |          |           |          |                              |          |          | ]             | CI            | aim      | Date     |          |     |          |            |              |                 |          |              |          |              |          |          |   |
|----------|----------|-----------------|----------|----------|----------|--------------|--|----------|----------|----------|-----------|----------|------------------------------|----------|----------|---------------|---------------|----------|----------|----------|-----|----------|------------|--------------|-----------------|----------|--------------|----------|--------------|----------|----------|---|
|          | =        | [_,             | T        | T        |          |              |  |          |          |          |           |          | _                            |          |          |               |               | Т        | T        |          |     |          | -          |              |                 |          |              |          |              |          |          |   |
| ā        | Original | 6/14/06         |          |          |          |              |  |          |          |          | <u> </u>  | Original |                              |          |          |               |               |          | ŀ        |          |     | <u>a</u> | Original   | İ            |                 |          |              |          |              | . !      |          |   |
| Final    | ·5       | 7               |          |          |          |              |  |          |          |          | Final     | -Ē       |                              |          |          | - 1           |               |          | ı        |          |     | Final    | .Ē         |              |                 |          |              |          |              |          |          |   |
|          | 0        | ۱°۱             | -        | ł        |          |              |  |          |          |          |           | 0        |                              |          |          |               |               |          | ŀ        |          |     |          | 0          |              | 1               |          |              |          |              | i        |          |   |
|          | 1        | 1               | $\dashv$ | $\dashv$ | _        | $\vdash$     |  | _        |          |          |           | 51       | $\vdash$                     |          |          | _             | _             | $\dashv$ |          | +        | l   | <b>-</b> | 101        |              | Н               |          |              |          |              |          |          |   |
|          | 2        | V               | $\dashv$ | -        |          |              | <del>                                     </del> |          | $\vdash$ | -        |           | 52       | -                            |          | $\neg$   |               | $\dashv$      | _        | _        | +        | i   |          | 102        | ┝╌           | Н               |          | $\vdash$     |          | $\vdash$     | $\neg$   | $\neg$   |   |
|          | 3        | V               | $\dashv$ | $\dashv$ | -        | ├-           | $\vdash$   |          | $\vdash$ | $\vdash$ |           | 53       | $\vdash$                     | $\vdash$ | $\dashv$ | $\dashv$      | -             | -+       | $\dashv$ |          | 1   |          | 103        | $\vdash$     | Н               | _        | $\vdash$     | -        |              | -        | -        | _ |
| <b>—</b> | 4        | 7               | -+       | $\dashv$ | -        | ┢            | _  |          | -        |          |           | 54       | H-                           |          | $\dashv$ | $\dashv$      | $\dashv$      | $\dashv$ | -+       |          | 1   | <b></b>  | 103        | ┝            | Н               | _        | <del> </del> | -        | $\vdash$     | $\dashv$ | $\dashv$ | _ |
| -        | 5        | ō               | $\dashv$ | $\dashv$ | $\dashv$ | ⊢            | H  |          |          | $\dashv$ |           | 55       | -                            | Н        | $\dashv$ | $\dashv$      | $\dashv$      | $\dashv$ | -        | +-       | 1   |          | 104<br>105 | ⊢            | Н               |          | $\vdash$     | $\vdash$ | $\vdash$     | $\dashv$ | $\dashv$ |   |
|          | 6        | 7               | $\dashv$ | $\dashv$ | -        | ⊢            | $\vdash$   |          | -        | $\vdash$ |           | 56       |                              | $\vdash$ | -        |               |               | -        | $\dashv$ |          | ł   | <u> </u> | 105        | ┝            |                 |          | $\vdash$     | $\vdash$ | $\vdash$     | $\dashv$ | $\dashv$ |   |
| ļ        | 7        | 7               | -+       | $\dashv$ | _        | ⊢            | H  | _        |          | $\vdash$ |           | 57       | -                            |          | -        | -             |               | -        | -        |          | ł   |          | 107        | <u> </u>     | Н               |          |              | H        | $\vdash$     | $\dashv$ | $\dashv$ |   |
|          |          |                 | $\dashv$ | -        |          | _            |  | _        | ⊢        | $\dashv$ | -         |          |                              | -        | -        |               |               | -        | -        |          | ł   |          | 107        | ├            | Н               |          | <u> </u>     | Н        | H            | $\dashv$ | $\dashv$ |   |
|          | 8        | 0               | $\dashv$ | $\dashv$ | _        | <u> </u>     | _  | _        |          |          | -         | 58       | _                            | Н        | $\dashv$ | -             | -             | $\dashv$ | -+       | -        | ł   |          | 108        | <del> </del> |                 |          | _            | _        | _            | -        |          |   |
|          | 9        | 1               |          | -        | _        | _            |  | <u> </u> | _        | Щ        |           | 59       | _                            |          |          | -             |               | $\dashv$ | -        |          |     | <u> </u> | 109        | <u> </u>     | Н               |          |              | $\vdash$ | _            | -        | $\dashv$ |   |
|          | 10       | 1               |          | _        |          | <u> </u>     | _  |          | <b>_</b> | _        | -         | 60       |                              |          | $\dashv$ | _             | _             | _        | -+       |          | l   |          | 110        |              |                 |          |              |          | lacksquare   | -        | $\dashv$ |   |
| <u></u>  | 11       | 1               | _        | _        |          | <u> </u>     |  | <u> </u> |          |          | <u> </u>  | 61       | $ldsymbol{ldsymbol{\sqcup}}$ | Щ        |          | _             | _             | _        | _        |          | Į l |          | 111        |              | Щ               |          | _            | _        | $oxed{oxed}$ | $\sqcup$ | _        |   |
| L        | 12       | 0 7             |          | _        |          | <u> </u>     | <u> </u>   | L        | <u> </u> | Щ        | <u> </u>  | 62       | <u> </u>                     | Ш        | Щ        | _             | _             | _        | _ļ       |          |     |          | 112        | <u> </u>     | Ш               |          | <u> </u>     | <u> </u> | $oxed{oxed}$ | Ш        |          |   |
|          | 13       | 1               |          |          |          |              | Ш  | _        |          | $\sqcup$ |           | 63       |                              | Ш        |          |               |               |          | _        | $\bot$   |     |          | 113        |              | Ш               |          |              |          | L.,          |          |          |   |
|          | 14       | 1               |          |          |          |              |  |          |          |          | L         | 64       | <u> </u>                     | Ш        | Ш        |               | ightharpoonup | $\perp$  |          |          | 1   |          | 114        | L            | Ш               |          | Ш            | L        | <u> </u>     |          |          |   |
|          | 15       | 0               |          |          |          |              |  | ot       |          |          |           | 65       | L_                           |          |          |               |               | $\Box$   | 1        | $\perp$  |     |          | 115        | L            | Ш               |          | L.,          | L        |              |          |          |   |
|          | 16       | 1               |          |          |          |              |  |          |          | Ш        |           | 66       |                              |          |          |               | _[            |          | _[       |          |     |          | 116        |              |                 |          |              |          |              |          |          |   |
|          | 17       | 1               |          |          |          |              |  |          |          |          |           | 67       |                              |          |          |               |               |          |          |          |     |          | 117        |              |                 |          |              |          |              |          |          |   |
|          | 18       | 1               |          |          |          | L            |  |          |          |          |           | 68       |                              |          |          |               |               |          |          |          |     |          | 118        |              |                 |          |              |          |              |          |          |   |
|          | 19       | 0               |          | $\neg$   |          |              |  |          |          |          |           | 69       |                              |          |          |               |               |          | $\Box$   |          | ]   |          | 119        |              |                 |          |              |          |              |          |          |   |
|          | 20       | 0               | T        | T        |          |              |  |          |          |          |           | 70       |                              |          |          | İ             |               |          | $\neg$   |          | 1   |          | 120        |              | П               |          |              |          |              |          |          |   |
|          | 21       | 0               | T        | 寸        | T        |              |  |          |          | $\Box$   |           | 71       |                              | $\Box$   |          | $\neg$        |               |          | $\neg$   |          | 1   |          | 121        |              |                 |          |              |          |              |          | $\neg$   |   |
|          | 22       | 0               | $\dashv$ | $\neg$   | $\neg$   |              |  | Г        | Т        |          |           | 72       |                              |          |          |               | 1             |          |          |          | 1   |          | 122        | T            |                 |          |              |          |              | $\neg$   | $\neg$   |   |
|          | 23       | 0               | T        | 1        |          |              |  |          |          | $\Box$   |           | 73       |                              |          | $\Box$   |               |               | 7        | 丁        | $\neg$   | 1   |          | 123        |              |                 |          |              |          |              |          | T        |   |
|          | 24       | 0 >             | $\dashv$ | $\dashv$ |          |              | Г  | Г        | T        | $\Box$   | <b>——</b> | 74       |                              | $\vdash$ |          |               | $\dashv$      | $\dashv$ | 7        |          | 1   |          | 124        |              |                 |          |              |          | П            | $\dashv$ | 一        |   |
|          | 25       | $\vdash$        |          | $\dashv$ |          | $\vdash$     |  | $\vdash$ |          | $\vdash$ |           | 75       | Т                            | Н        | $\dashv$ |               | $\dashv$      | $\dashv$ | 寸        | $\neg$   | 1   |          | 125        | $\vdash$     | Н               |          |              |          | Н            | $\dashv$ | $\dashv$ |   |
|          | 26       |                 |          | $\dashv$ | $\neg$   | H            | -  |          |          |          |           | 76       |                              | П        | _        |               |               | _        | ヿ        |          | 1   |          | 126        | -            |                 |          |              |          |              | $\dashv$ |          | _ |
| <b>-</b> | 27       | -               |          | +        |          |              |  | $\vdash$ |          | $\vdash$ |           | 77       | -                            |          |          |               | -             |          | 7        |          | 1   |          | 127        |              | Н               |          |              |          | -            | $\dashv$ |          |   |
| -        | 28       | $\dashv$        |          | $\dashv$ | $\dashv$ | $\vdash$     | $\vdash$   | $\vdash$ | $\vdash$ | $\vdash$ |           | 78       | -                            |          |          |               | _             | $\dashv$ | ┪        |          | ł   |          | 128        | $\vdash$     | Н               | -        |              |          | $\vdash$     | $\dashv$ | $\dashv$ |   |
| $\vdash$ | 29       | $\vdash$        | +        |          | -        | ⊢            | $\vdash$   | $\vdash$ |          | -        |           | 79       | -                            | $\vdash$ | $\dashv$ | -             |               | +        | ┪        | +        | 1   |          | 129        | -            | H               |          |              | -        | -            |          | $\dashv$ |   |
|          | 30       | $\dashv$        | -        |          | -        | -            |  | -        |          | $\vdash$ | _         | 80       | Н                            | Н        | $\dashv$ | $\dashv$      | +             | $\dashv$ | $\dashv$ | _        | 1   |          | 130        | _            | H               |          |              | $\vdash$ | $\vdash$     |          |          |   |
| <u> </u> |          | $\dashv$        | -+       |          |          | -            | -  | $\vdash$ |          | Н        | -         | 81       |                              | $\vdash$ | $\dashv$ |               |               | +        | $\dashv$ |          | ł   |          | 131        |              | Н               |          | _            |          | $\vdash$     |          |          |   |
|          | 31<br>32 | $\vdash$        | +        | -        | _        | <del> </del> |  |          | $\vdash$ | $\vdash$ |           | 82       | $\vdash$                     | $\vdash$ |          | -+            |               | $\dashv$ | -        |          | 1   | <b>-</b> | 122        | <u> </u>     | $\vdash$        |          |              | -        | <del> </del> |          | $\dashv$ |   |
| <u> </u> | 32       | $\vdash$        | +        |          | -        | $\vdash$     | $\vdash$   | $\vdash$ | H        | $\vdash$ |           | 83       | ├                            | $\vdash$ |          |               |               | +        | +        |          | 1   |          | 132<br>133 | -            | Н               |          | Η,           | <u> </u> | _            | $\dashv$ | -        |   |
| <u> </u> | 33       | $\vdash \vdash$ | -        |          | $\dashv$ | $\vdash$     | <u> </u>   | $\vdash$ | $\vdash$ | $\dashv$ |           |          |                              | $\vdash$ |          |               |               | +        |          |          | 1   | <u> </u> | 133        |              | $\vdash\vdash$  | _        | <u> </u>     | $\vdash$ | $\vdash$     |          | _        |   |
| <b> </b> | 34       | $\vdash$        | -+       | 4        | -        | $\vdash$     | $\vdash$   | $\vdash$ | $\vdash$ | $\vdash$ | -         | 84       | -                            | Н        |          |               | -             |          | -        |          | } : |          | 134<br>135 | H            | Н               |          |              |          |              |          |          |   |
|          | 35       | $\dashv$        | -        |          |          | ļ            | -  | <u> </u> | -        | $\sqcup$ | -         | 85       | $\vdash$                     | Н        |          |               | _}            | $\dashv$ | _        |          | 1   | <b>├</b> | 135        | <u> </u>     | Ш               |          | Щ            | <u> </u> | -            | -        |          | _ |
|          | 36       |                 |          | _        | _        | <u> </u>     | <u> </u>   | <u> </u> | $\vdash$ | $\sqcup$ | <u> </u>  | 86       | <b> </b>                     | $\sqcup$ |          | $\rightarrow$ | _             | 4        |          | -        |     |          | 136        |              | $\vdash \vdash$ |          | Ш            | <b> </b> | Щ            |          |          |   |
| <u></u>  | 37       | Ш               | _        | 4        | _        | $\vdash$     | <u> </u>   | <u> </u> | <u> </u> | Щ        | <u> </u>  | 87       | _                            | Ш        | <u> </u> | _             | _             | _        | 4        | _        |     |          | 137        | $\vdash$     | Ш               |          |              | Ш        | L.           | _        |          |   |
| L        | 38       | Ш               | _        | _        |          | <u> </u>     | <u> </u>   | L        |          | $\Box$   | <u> </u>  | 88       | <u> </u>                     | Щ        | <b></b>  |               | _             | _        | _        |          |     | <u> </u> | 138        |              | Ш               |          | Ш            | Щ        |              |          |          |   |
| <u></u>  | 39       | Ш               | _        | _        |          | L_           | L_   | L_       | <u> </u> |          |           | 89       | <u> </u>                     | $\sqcup$ |          |               | _             | _        | _        |          |     | ļ        | 139        |              | Ш               |          | Ш            |          |              |          |          |   |
| L        | 40       | Ш               |          |          |          | <u> </u>     | L_   | L        | Ш        | Щ        |           | 90       | $oxed{oxed}$                 |          |          |               |               | $\perp$  |          |          |     |          | 140        | L_           | Ш               |          | $\Box$       |          |              |          |          |   |
|          | 41       | Ш               |          |          |          | L            |  | L        | Ш        | Щ        |           | 91       |                              |          |          |               |               |          | $\perp$  |          |     | L        | 141        |              | Ш               |          | Ш            | Ш        | Ш            |          |          |   |
|          | 42       |                 |          | [        |          | <u></u>      |  |          |          | Щ        |           | 92       | Щ                            | Ш        | Ш        | [             |               | $\perp$  | [        |          | Į   | <u> </u> | 142        | oxdot        | Ш               |          | Ш            | Ш        | Ш            |          |          |   |
|          | 43       |                 |          |          |          |              |  |          |          |          |           | 93       |                              |          |          |               |               | $\Box$   | $\Box$   |          | ]   |          | 143        |              |                 |          |              |          |              |          | ]        |   |
|          | 44       |                 |          |          |          |              |  |          |          |          |           | 94       |                              |          |          |               |               |          |          |          |     |          | 144        |              |                 |          |              |          |              |          |          |   |
|          | 45       |                 |          |          |          |              |  |          |          |          |           | 95       |                              |          |          |               |               | J        | J        |          |     |          | 145        |              |                 |          |              |          |              |          |          |   |
|          | 46       | $\Box$          | $\neg$   | $\neg$   |          |              |  |          |          |          |           | 96       |                              |          | П        | $\neg$        | $\neg$        | $\neg$   | $\neg$   | $\neg$   |     |          | 146        |              |                 |          |              |          |              |          |          |   |
|          | 47       | $\Box$          |          | 寸        |          |              | П  |          |          |          |           | 97       |                              |          | $\Box$   |               | $\neg$        |          | $\neg$   |          |     |          | 147        |              | П               |          |              | П        |              |          | $\neg$   |   |
|          | 48       | П               | 一        | T        | 一        |              | П  |          |          |          |           | 98       |                              |          | $\Box$   | $\neg$        | 寸             | $\dashv$ |          | $\neg$   |     |          | 148        |              |                 |          | П            | П        | П            |          |          |   |
| П        | 49       | $\Box$          | $\dashv$ | 寸        | $\dashv$ |              | М  | $\Box$   |          | $\Box$   |           | 99       |                              | $\Box$   | $\dashv$ | $\dashv$      | $\dashv$      | $\dashv$ | $\dashv$ | $\dashv$ | 1   |          | 149        | П            | $\Box$          | $\neg$   | П            | Н        | Н            |          | $\neg$   |   |
| $\vdash$ | 50       |                 | $\dashv$ | $\dashv$ | $\dashv$ |              | Н  |          |          | $\dashv$ |           | 100      | $\vdash$                     | $\Box$   | $\dashv$ | $\dashv$      | $\dashv$      | +        | $\dashv$ | $\dashv$ |     |          | 150        | Н            | H               | $\vdash$ | $\vdash$     | Н        | Н            | ᅱ        |          |   |
|          | -        | -               |          |          |          | _            |  | _        | 1        |          |           |          |                              | iI       |          |               | - 1           |          |          |          | ı l |          |            |              |                 |          |              |          |              |          | - 1      |   |